C-3.2 Interpret the names and formulas for ionic and covalent compounds.

## Revised Taxonomy Level 2.1 B Interpreting conceptual knowledge

## **In Physical Science Students**

❖ Predict the ratio by which the representative elements combine to form binary ionic compounds, and represent that ratio in a chemical formula. (PS-4.5)

## It is essential for students to

- ❖ Name and write the chemical formulas for binary molecular compounds
- ❖ Name and write the chemical formulas for ionic compounds including those that contain common polyatomic ions
- ❖ Identify substances as molecular or ionic compounds
- Compare molecular and ionic compounds according to their properties
- ❖ Differentiate and write molecular formulas, empirical formulas and structural formulas

## Assessment

Since the verb for this indicator is <u>interpret</u> (<u>represent</u>) the major focus of assessment will be for students to "change from one form of representation to another". In this case, write the name of a chemical compound when given the formula, or write the formula when given the name. As this indicator is classified as <u>conceptual knowledge</u>, it is vital that students understand the protocol for naming and writing the formulas for chemical substances and can apply their knowledge of chemical nomenclature to any chemical formula or name of a chemical compound or substance.